



PEROXISOME-ASSOCIATED POLYPEPTIDE...

Bernard Knoops, et al.

Appl. No.: 09/486167 Atty Docket: DECLE30.001APC

1/7

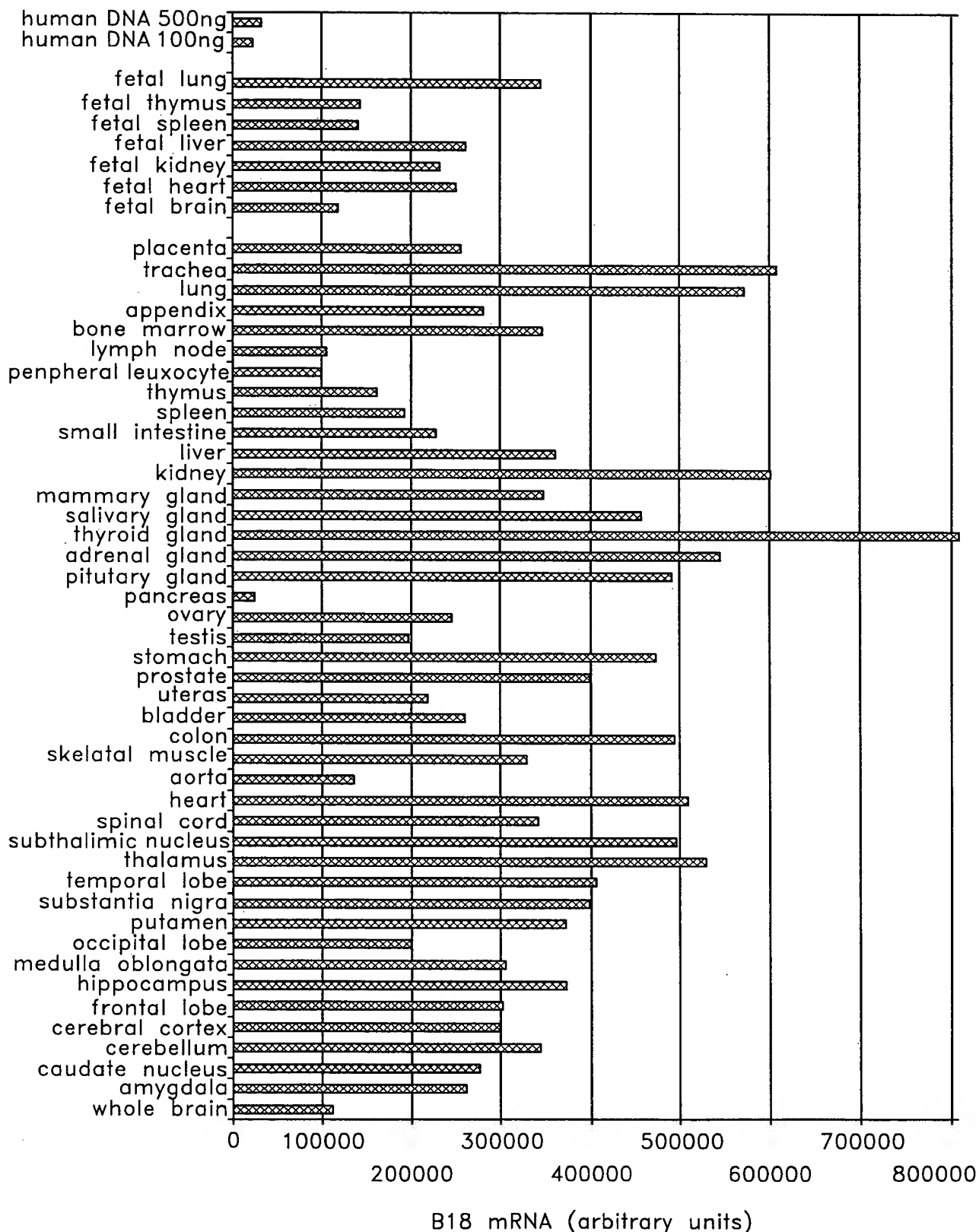


FIG. 1

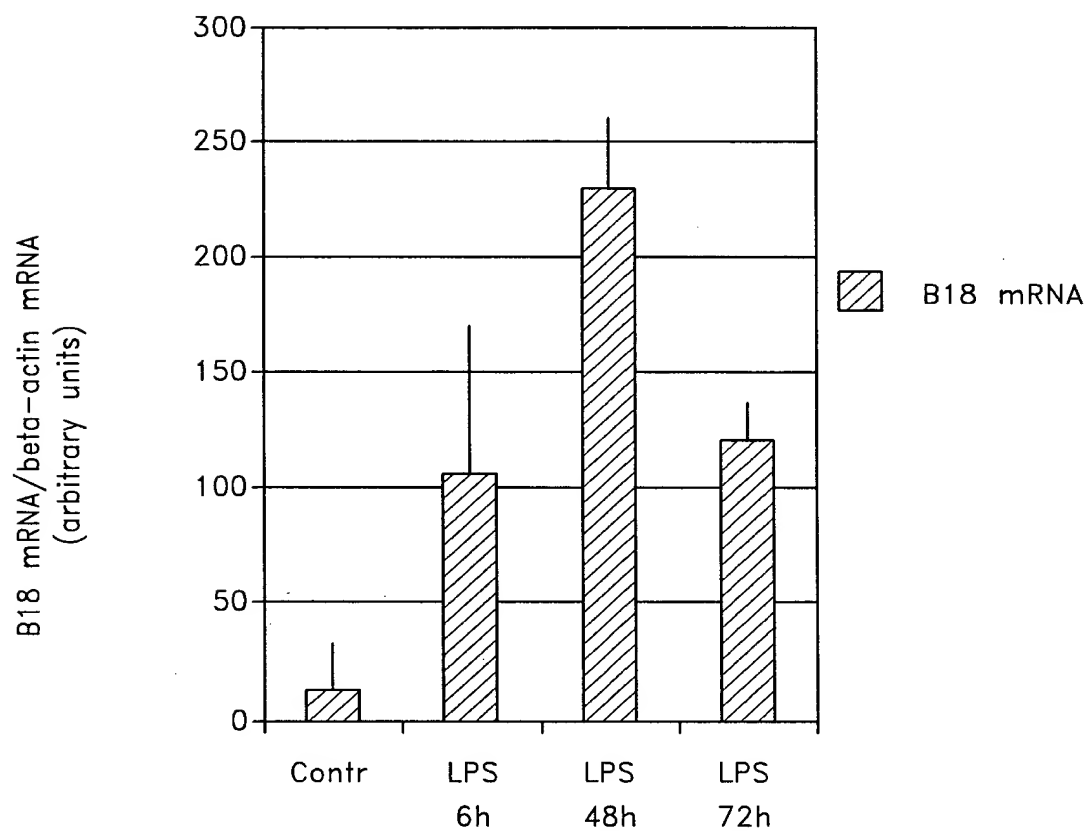
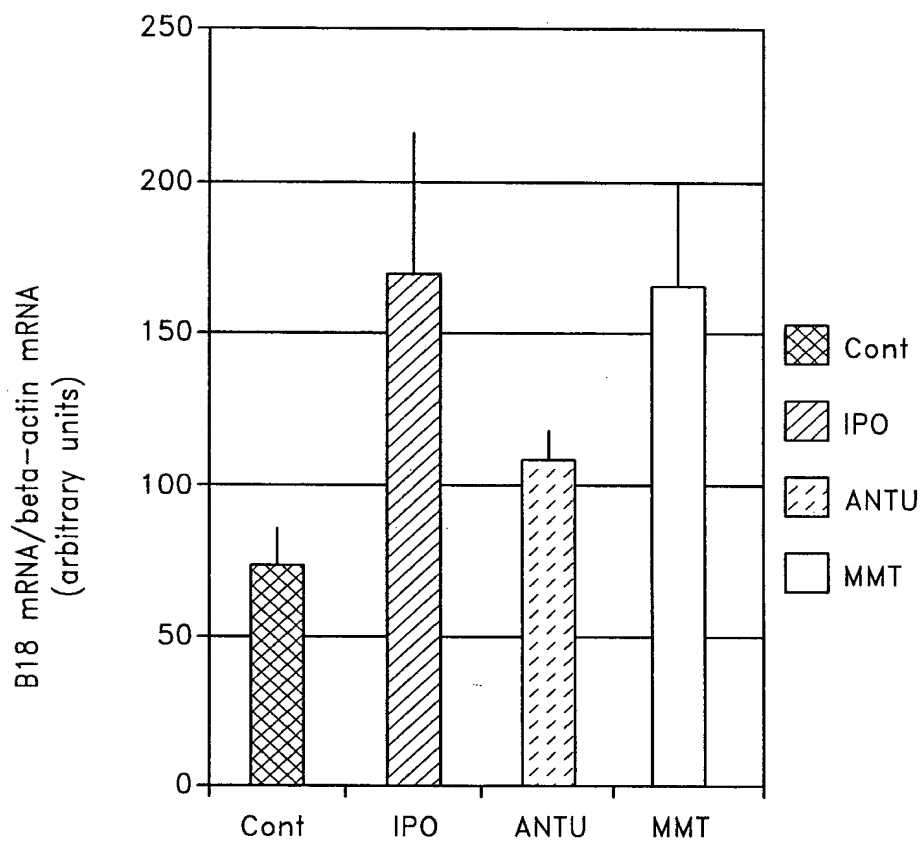
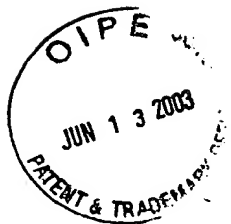


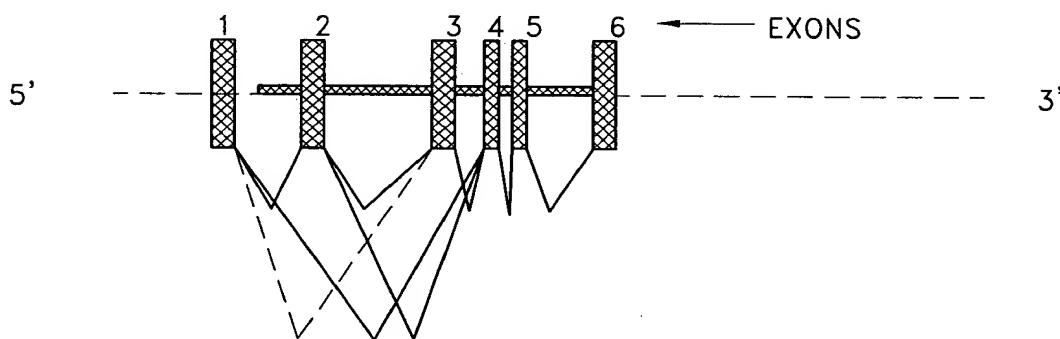
FIG. 2



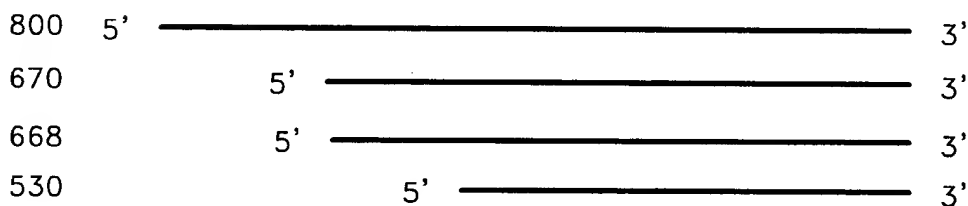
*FIG. 3*



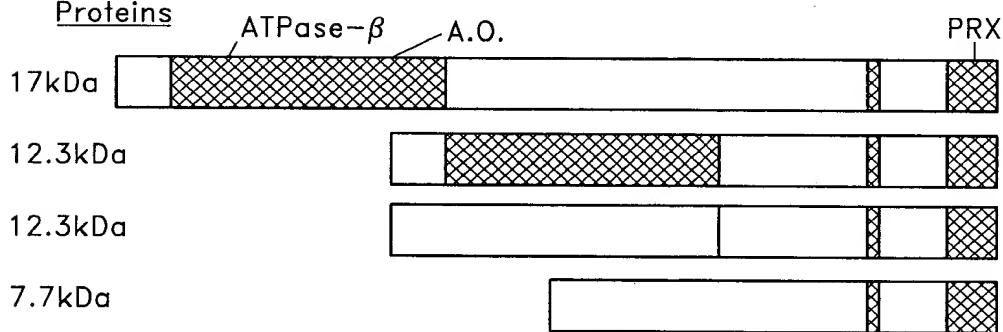
Gene (chromosome 11q12-13)



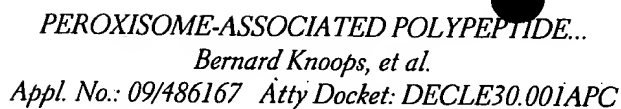
mRNAs



Proteins



**FIG. 4**



CLUSTAL V alignment of human and rat B18 amino acid sequences  
(Identity: 908, Homology: 97.5%):

```

B18hum  MAPIKVGDAIPAVEVFEGEPGNKVNLAELFKGKKGVLFVGPAGFTPGCSK  = SEQIDNO1
B18rat  MAPIKVGDTIPSVEVFEGEPGKKVNLAELFKDKKGVLFVGPAGFTPGCSK
*****.*.******.*****.*****.*****.*****.*****

```

B18hum THLPGFVEQAEALKAKGVQVVACLSVNDAFVTGEWGRAHKAEGKVRLLD  
B18rat THLPGFVEQAGALKAKGAQVVACLSVNDVFVTAEWGRAHQAEQKVQLLD  
\*\*\*\*\* \*

B18hum PTGAFGKETDLLLDDSLVSIFGNRRLLKRFSMVVQDGIVKALNVEPDGTGL  
B18rat PTGAFGKETDLLLDDSLVSLFGNRRLLKRFSMVIDKGVVKALNVEPDGTGL  
\*\*\*\*\*.\*\*\*\*\* \*

B18hum TCSLAPNIISQL  
B18rat TCSLAPNILSQL  
\*\*\*\*\*

CLUSTAL V alignment of human and mouse B18 amino acid sequences  
(Identity: 91%, Homology: 96%)

B18hum      MAPIKVGDAIPAVEVFEGEPGNKVNLAELFKGKKGVLFVGPGAFTPGCSK  
B18mouse   MAPIKVGDAIPSEVFEGEPGKKVNLAELFKGKKGVLFVGPGAFTPGCSK  
\*\*\*\*\*

B18hum      THLPGFVEQAEALKAKGVQVVAACLSVNDAFVTGEWGRAHKAEGKVRLLAD  
B18mouse   THLPGFVEQAGALKAKGAQVVAACLSVNDVFVIEEWGRAHQAEKVRLLAD  
\*\*\*\*\*    \*\*\*\*\*    \*\*\*\*\*    \*\*    \*\*\*\*\*    \*\*\*\*\*

B18hum PTGAFGKETDLLLDDSLVSIFGNRRLLKRFSMVVQDGIVKALNVEPDGTGL  
B18mouse PTGAFGKATDLLLDDSLVSLFGNRRLLKRFSMVIDNGIVKALNVEPDGTGL  
\*\*\*\*\*

```
B18hum      TCSLAPNIIISQL
B18mouse    TCSLAPNILSQL
            *****
```

CLUSTAL V alignment of human and rat cDNA sequences (identity: 612/780, 78.5%):

B18hum GCCAGGAGGCGGAGTGGAAAGTGGCCGTGGGGCGGGTATGGGACTAGCTGG  
-----TG-----CGTC-----CTAGGCAG  
          \*\*             \*\*\*                 \*\*\*\*\* \*

B18hum CGTGTGCGCCCTGAGACGCTCAGCGGGCTATATACTCGTCGGTGGGGCCG  
B18rat CATA---GCC---GGA---TCGGTGCTCCGTGCATCGGCTACTTGGAC-  
\* \*        \*\*\*        \*\*        \*\* \* \*        \* \*        \* \*        \*

B18hum GCGGTCAGTCTGCGGCAGCGGCAGCAAGACGGTGCAGTGAAGGAGAGTGG  
B18rat -----GTGCGTGGCAGGCAGAGCAGGCCGG---AAAGGAGCAGGTTGG  
          \*\* \* \*\*\*\*\*           \*\*\*\*\* \*       \*   \* \* \* \* \*





PEROXISOME-ASSOCIATED POLYPEPTIDE...

Bernard Knoops, et al.

Appl. No.: 09/486167 Atty Docket: DECLE30.001APC

7/7

CLUSTAL V alignment of human and mouse cDNA sequences  
(identity:552/675, 81.8%)

```
B18hum  GCCAGGAGGCGGAGTGGAAGTGGCCGTGGGGCGGGTATGGGACTAGCTGG
B18mouse -----

B18hum  CGTGTGCGCCCTGAGACGCTCAGCGGGCTATATACTCGTCGGTGGGGCCG
B18mouse -----TGCTCCGTG-----CATCGACGTGCTTG
                **** * *                * * * * * *

B18hum  GCGGTCAGTCTGCGGCAGCGGCAGCAAGACGGTGCAGTGAAGGAGAGTGG
B18mouse GCAGGCAG-----AGCAGGCCGG---AAAGAAGCAGGTTGG
                ** * * * *                **** * * * * * * * * * *

B18hum  GCGTCTGGCGGGGTCCGCAGTTTCAGCAGAGCCGCTGCAGCCATGGCCCC
B18mouse GAGTGTGGCGGAGCCCGCAGCTTCAGCAGCTCCGCGGTGACCATGGCCCC
                * * * * * * * * * * * * * * * * * * * * * *

B18hum  AATCAAGGTGGGAGATGCCATCCCAGCAGTGGAGGTGTTTGAAGGGGAGC
B18mouse GATCAAGGTGGGAGATGCCATTCCCTCAGTGGAGGTATTTGAAGGGGAAC
                * * * * * * * * * * * * * * * * * * * * * *

B18hum  CAGGGAACAAGGTGAACCTGGCAGAGCTGTTCAAGGGCAAGAAGGGTGTG
B18mouse CGGGAAGAAGGTGAACCTGGCAGAGCTGTTCAAGGGCAAGAAGGTGTT
                * * * * * * * * * * * * * * * * * * * * * *

B18hum  CTGTTTGGAGTTCCTGGGGCCTTCACCCCTGGATGTTCCAAGACACACCT
B18mouse TTGTTTGGAGTCCCTGGGGCATTTACACCTGGCTGTTCTAAGACCCACCT
                * * * * * * * * * * * * * * * * * * * * * *

B18hum  GCCAGGGTTTGTGGAGCAGGCTGAGGCTCTGAAGGCCAAGGGAGTCCAGG
B18mouse GCCTGGGTTTGTGGAGCAAGCTGGAGCTCTGAAGGCTAAGGGAGCGCAGG
                *** * * * * * * * * * * * * * * * * * * * * *

B18hum  TGGTGGCCTGTCTGAGTGTTAATGATGCCTTTGTGACTGGCGAGTGGGGC
B18mouse TGGTGGCCTGTCTGAGCGTTAATGACGTCTTTGTGATTGAAGAGTGGGGT
                * * * * * * * * * * * * * * * * * * * * * *

B18hum  CGAGCCCACAAGGCGGAAGGCAAGGTTTCGGCTCCTGGCTGATCCCCTG
B18mouse CGAGCCCACCAGGCAGAAGGCAAGGTTTCGGCTCCTGGCTGACCCCCTG
                * * * * * * * * * * * * * * * * * * * * * *

B18hum  GGCCTTTGGGAAGGAGACAGACTTATTACTAGATGATTCGCTGGTGTCCA
B18mouse AGCCTTTGGGAAGGCGACAGACTTATTATTGGATGATTCTTTGGTGTCTC
                * * * * * * * * * * * * * * * * * * * * * *

B18hum  TCTTTGGGAATCGACGTCTCAAGAGGTTCTCCATGGTGGTACAGGATGGC
B18mouse TCTTTGGGAATCGTCGGCTGAAAAGGTTCTCCATGGTGTAGACAACGGC
                * * * * * * * * * * * * * * * * * * * * * *

B18hum  ATAGTGAAGGCCCTGAATGTGGAACCAGATGGCACAGGCCCTCACCTGCAG
B18mouse ATAGTGAAGGCACTGAACGTGGAGCCAGATGGCACAGGCCCTCACCTGCAG
                * * * * * * * * * * * * * * * * * * * * * *

B18hum  CCTGGCACCCAATATCATCTCACAGCTCTGAGGCCCTGGGCCAGATTACT
B18mouse CCTGGCCCCCAACATCCTCTCCCACTCTGAGGCCCTGG-CCAGATG---
                * * * * * * * * * * * * * * * * * * * * * *

B18hum  TCCTCCACCCCTCCCTATCTCACCTGCCAGCCCTGTGCTGGGGCCCTGC
B18mouse TCCTCTGACTCTCCC-ATCTCTCCCACCCGGCTCT-----AGGCC----
                * * * * * * * * * * * * * * * * * * * * * *

B18hum  AATTGGAATGTTGGCCAGATTTCTGCAATAAACACTTGTGTTTGC GGAA
B18mouse ----AAAAGGCTCGGTACCTCCTTACTGGGAGC-CACGT-----
                * * * * * * * * * * * * * * * * * * * * * *
```

FIG. 5C